

Dkt. 2271/66642

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of : Hideyuki YAMAGUCHI et al.  
U.S. Serial No.: Not yet known Int'l Appl. No.: PCT/JP01/04290  
Filed : Concurrently herewith Int'l Appl. Filing Date: May 22, 2001  
For : MULTI-LAYER PAPER PEELABLE INTO AT LEAST TWO  
TISSUE SHEETS

January 22, 2002  
1185 Avenue of the Americas  
New York, N.Y. 10036  
(212) 278-0400

Assistant Commissioner for Patents  
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to the initial examination of the above-identified application, Applicants respectfully request that the application be amended as follows.

In the Specification

On page 56, change the section heading at line 21 from "Comparative Example 2" to --Comparative Example 6--.

On page 64, replace the paragraph starting at line 9 with the replacement paragraph in clean form provided in **Exhibit A** attached hereto. A marked-up version of the paragraph, with deleted matter in brackets and with added matter underlined, is provided in **Exhibit B** attached hereto.

In the Claims

Please amend claims 5, 6, 13-18, 25, 27, 29, 31, 33, 36 and 38-40, as marked-up in **Exhibit C** attached hereto, by deleting the bracketed material and inserting the underlined material. Please add new claims 44-226. A clean copy of claims 5, 6, 13-18, 25, 27, 29, 31, 33, 36 and 38-40 as amended and new claims 44-226 is attached as **Exhibit D**.

REMARKS

The subject application is a U.S. national stage of International Application No. PCT/JP01/04290, filed May 22, 2001. Claims 5, 6, 13-18, 25, 27, 29, 31, 33, 36 and 38-40 have been amended and new claims 44-226 have been added hereby. Accordingly, claims 1-226 are pending and presented for examination in the subject application.

The specification has been amended to correct typographical errors therein. Support for the amendments to the specification may be found in Tables 1 and 2 (pages 57, 65 and 66).

Claims 5, 6, 13-18, 25, 27, 29, 31, 33, 36 and 38-40 have been amended to remove multiple dependencies therein, in order to place them in better condition for examination.

If a telephone interview could advance the prosecution of this application, the Examiner is respectfully requested to call the undersigned attorney.

The Office is hereby authorized to charge any additional fees that may be required in connection with this amendment and to credit any overpayment to our Deposit Account No. 03-3125.

Early and favorable consideration of the case is respectfully requested.

Respectfully submitted,



PAUL TENG, Reg. No. 40,837  
Attorney for Applicants  
Cooper & Dunham LLP  
1185 Avenue of the Americas  
New York, N.Y. 10036  
Tel.: (212) 278-0400

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Example 10 was repeated in the same manner as described except that 0.75 mass % (based on the fibers) of a polyethylene wax (PERTOL N856 manufactured by Kindai Chemical Industry Co., Ltd.) as a releasing agent was incorporated into the stock for wood pulp fiber layer to obtain a 3-layer paper of the present invention. The peel strength of the 3-layer paper was 2.7 N/m at the interface between the layer produced in the first cylinder wire section and the layer produced in the short wire section and 2.8 N/m at the interface between the layer produced in the short wire section and the layer produced in the second cylinder wire section. The 3-layer paper could be uniformly delaminated with less peel resistance as compared with that in Example 10. The 3-layer paper and the tissue sheets had the properties summarized in Table 2.

**Exhibit A**

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5. (Amended) A multi-layer paper as claimed in [any one of] claim[s] 2[-4], wherein said binder fibers are composite fibers and are contained in an amount of 20-100 mass %.

6. (Amended) A multi-layer paper as claimed in [any one of] claim[s] 2[-4], wherein said binder fibers are single-component fibers and are contained in an amount of 20-70 mass %.

13. (Amended) A multi-layer paper as claimed in [any one of] claim[s] 2[-8], wherein said one layer mainly made of cellulose fibers contains a release agent.

14. (Amended) A multi-layer paper as claimed in [any one of] claim[s] 2[-8], wherein said the other layer mainly made of synthetic fibers are made of polyester fibers.

15. (Amended) A multi-layer paper as claimed in [any one of] claim[s] 1[-14], wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

16. (Amended) A multi-layer paper as claimed in [any one of] claim[s] 1[-15], wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

17. (Amended) A multi-layer paper as claimed in [any one of] claim[s] 1[-16], wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

18. (Amended) A multi-layer paper as claimed in [any one of] claim[s] 2[-8], wherein the tissue sheet peeled from said multi-layer paper and made of the synthetic fibers has a density of not greater than 0.35 g/cm<sup>3</sup>.

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25. (Amended) A multi-layer paper as claimed in [any one of] claim[s] 20[-24], wherein said paper layer which can cause intralayer delamination is mainly made of polyester fibers.

27. (Amended) A multi-layer paper as claimed in [any one of] claim[s] 20[-24], wherein said paper layer which can cause intralayer delamination is mainly made of cellulose fibers.

29. (Amended) A method of forming tissue sheets, comprising providing a multi-layer paper according to [any one of] claim[s] 1[-19], and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

31. (Amended) A method of forming tissue sheets, comprising providing a multi-layer paper according to [any one of] claim[s] 20[-28], and delaminating said multi-layer paper at said paper layer which can cause intralayer delamination to obtain at least two tissue sheets.

33. (Amended) A tissue sheet obtained by a method according to [any one of] claim[s] 29[-32] and having a basis weight of 2-20 g/m<sup>2</sup>.

36. (Amended) A reinforced multi-layer paper material, comprising a multi-layer paper according to [any one of] claim[s] 1[-28] and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

38. (Amended) A method of preparing a reinforced tissue sheet material, comprising providing a reinforced multi-layer paper material according to claim 36 [or 37], and delaminating said multi-layer paper to obtain a reinforced tissue sheet material having said reinforcing member bonded thereto.

39. (Amended) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to [any one of] claim[s] 1[-28].

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5. (Amended) A multi-layer paper as claimed in claim 2, wherein said binder fibers are composite fibers and are contained in an amount of 20-100 mass %.

6. (Amended) A multi-layer paper as claimed in claim 2, wherein said binder fibers are single-component fibers and are contained in an amount of 20-70 mass %.

13. (Amended) A multi-layer paper as claimed in claim 2, wherein said one layer mainly made of cellulose fibers contains a release agent.

14. (Amended) A multi-layer paper as claimed in claim 2, wherein said the other layer mainly made of synthetic fibers are made of polyester fibers.

15. (Amended) A multi-layer paper as claimed in claim 1, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

16. (Amended) A multi-layer paper as claimed in claim 1, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

17. (Amended) A multi-layer paper as claimed in claim 1, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

18. (Amended) A multi-layer paper as claimed in claim 2, wherein the tissue sheet peeled from said multi-layer paper and made of the synthetic fibers has a density of not greater than 0.35 g/cm<sup>3</sup>.

25. (Amended) A multi-layer paper as claimed in claim 20, wherein said paper layer which

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can cause intralayer delamination is mainly made of polyester fibers.

27. (Amended) A multi-layer paper as claimed in claim 20, wherein said paper layer which can cause intralayer delamination is mainly made of cellulose fibers.

29. (Amended) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 1, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

31. (Amended) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 20, and delaminating said multi-layer paper at said paper layer which can cause intralayer delamination to obtain at least two tissue sheets.

33. (Amended) A tissue sheet obtained by a method according to claim 29 and having a basis weight of 2-20 g/m<sup>2</sup>.

36. (Amended) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 1 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

38. (Amended) A method of preparing a reinforced tissue sheet material, comprising providing a reinforced multi-layer paper material according to claim 36, and delaminating said multi-layer paper to obtain a reinforced tissue sheet material having said reinforcing member bonded thereto.

39. (Amended) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 1.

40. (Amended) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 1.

44. (New) A multi-layer paper as claimed in claim 3, wherein said binder fibers are composite fibers and are contained in an amount of 20-100 mass %.

45. (New) A multi-layer paper as claimed in claim 4, wherein said binder fibers are composite fibers and are contained in an amount of 20-100 mass %.

46. (New) A multi-layer paper as claimed in claim 3, wherein said binder fibers are single-component fibers and are contained in an amount of 20-70 mass %.

47. (New) A multi-layer paper as claimed in claim 4, wherein said binder fibers are single-component fibers and are contained in an amount of 20-70 mass %.

48. (New) A multi-layer paper as claimed in claim 3, wherein said one layer mainly made of cellulose fibers contains a release agent.

49. (New) A multi-layer paper as claimed in claim 4, wherein said one layer mainly made of cellulose fibers contains a release agent.

50. (New) A multi-layer paper as claimed in claim 5, wherein said one layer mainly made of cellulose fibers contains a release agent.

51. (New) A multi-layer paper as claimed in claim 6, wherein said one layer mainly made of cellulose fibers contains a release agent.

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52. (New) A multi-layer paper as claimed in claim 7, wherein said one layer mainly made of cellulose fibers contains a release agent.

53. (New) A multi-layer paper as claimed in claim 8, wherein said one layer mainly made of cellulose fibers contains a release agent.

54. (New) A multi-layer paper as claimed in claim 3, wherein said the other layer mainly made of synthetic fibers are made of polyester fibers.

55. (New) A multi-layer paper as claimed in claim 4, wherein said the other layer mainly made of synthetic fibers are made of polyester fibers.

56. (New) A multi-layer paper as claimed in claim 5, wherein said the other layer mainly made of synthetic fibers are made of polyester fibers.

57. (New) A multi-layer paper as claimed in claim 6, wherein said the other layer mainly made of synthetic fibers are made of polyester fibers.

58. (New) A multi-layer paper as claimed in claim 7, wherein said the other layer mainly made of synthetic fibers are made of polyester fibers.

59. (New) A multi-layer paper as claimed in claim 8, wherein said the other layer mainly made of synthetic fibers are made of polyester fibers.

60. (New) A multi-layer paper as claimed in claim 2, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

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61. (New) A multi-layer paper as claimed in claim 3, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

62. (New) A multi-layer paper as claimed in claim 4, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

63. (New) A multi-layer paper as claimed in claim 5, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

64. (New) A multi-layer paper as claimed in claim 6, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

65. (New) A multi-layer paper as claimed in claim 7, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

66. (New) A multi-layer paper as claimed in claim 8, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

67. (New) A multi-layer paper as claimed in claim 9, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

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68. (New) A multi-layer paper as claimed in claim 10, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

69. (New) A multi-layer paper as claimed in claim 11, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

70. (New) A multi-layer paper as claimed in claim 12, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

71. (New) A multi-layer paper as claimed in claim 13, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

72. (New) A multi-layer paper as claimed in claim 14, wherein one of the two adjacent paper layers between which said peelable interface is defined is made of relatively more highly oriented fibers as compared with that of the other paper layer.

73. (New) A multi-layer paper as claimed in claim 2, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

74. (New) A multi-layer paper as claimed in claim 3, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

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75. (New) A multi-layer paper as claimed in claim 4, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

76. (New) A multi-layer paper as claimed in claim 5, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

77. (New) A multi-layer paper as claimed in claim 6, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

78. (New) A multi-layer paper as claimed in claim 7, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

79. (New) A multi-layer paper as claimed in claim 8, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

80. (New) A multi-layer paper as claimed in claim 9, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

81. (New) A multi-layer paper as claimed in claim 10, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

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82. (New) A multi-layer paper as claimed in claim 11, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

83. (New) A multi-layer paper as claimed in claim 12, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

84. (New) A multi-layer paper as claimed in claim 13, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

85. (New) A multi-layer paper as claimed in claim 14, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

86. (New) A multi-layer paper as claimed in claim 15, wherein at least one of the two surfaces of two adjacent paper layers which surfaces define said peelable interface has been subjected to a smoothing treatment.

87. (New) A multi-layer paper as claimed in claim 2, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

88. (New) A multi-layer paper as claimed in claim 3, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

89. (New) A multi-layer paper as claimed in claim 4, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

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90. (New) A multi-layer paper as claimed in claim 5, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

91. (New) A multi-layer paper as claimed in claim 6, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

92. (New) A multi-layer paper as claimed in claim 7, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

93. (New) A multi-layer paper as claimed in claim 8, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

94. (New) A multi-layer paper as claimed in claim 9, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

95. (New) A multi-layer paper as claimed in claim 10, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

96. (New) A multi-layer paper as claimed in claim 11, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

97. (New) A multi-layer paper as claimed in claim 12, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

98. (New) A multi-layer paper as claimed in claim 13, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

99. (New) A multi-layer paper as claimed in claim 14, wherein at least one of said tissue

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sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

100. (New) A multi-layer paper as claimed in claim 15, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

101. (New) A multi-layer paper as claimed in claim 16, wherein at least one of said tissue sheet peeled from said multi-layer paper has a basis weight of 1-20 g/m<sup>2</sup>.

102. (New) A multi-layer paper as claimed in claim 3, wherein the tissue sheet peeled from said multi-layer paper and made of the synthetic fibers has a density of not greater than 0.35 g/cm<sup>3</sup>.

103. (New) A multi-layer paper as claimed in claim 4, wherein the tissue sheet peeled from said multi-layer paper and made of the synthetic fibers has a density of not greater than 0.35 g/cm<sup>3</sup>.

104. (New) A multi-layer paper as claimed in claim 5, wherein the tissue sheet peeled from said multi-layer paper and made of the synthetic fibers has a density of not greater than 0.35 g/cm<sup>3</sup>.

105. (New) A multi-layer paper as claimed in claim 6, wherein the tissue sheet peeled from said multi-layer paper and made of the synthetic fibers has a density of not greater than 0.35 g/cm<sup>3</sup>.

106. (New) A multi-layer paper as claimed in claim 7, wherein the tissue sheet peeled from said multi-layer paper and made of the synthetic fibers has a density of not greater than 0.35 g/cm<sup>3</sup>.

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107. (New) A multi-layer paper as claimed in claim 8, wherein the tissue sheet peeled from said multi-layer paper and made of the synthetic fibers has a density of not greater than 0.35 g/cm<sup>3</sup>.

108. (New) A multi-layer paper as claimed in 21, wherein said paper layer which can cause intralayer delamination is mainly made of polyester fibers.

109. (New) A multi-layer paper as claimed in 22, wherein said paper layer which can cause intralayer delamination is mainly made of polyester fibers.

110. (New) A multi-layer paper as claimed in 23, wherein said paper layer which can cause intralayer delamination is mainly made of polyester fibers.

111. (New) A multi-layer paper as claimed in 24, wherein said paper layer which can cause intralayer delamination is mainly made of polyester fibers.

112. (New) A multi-layer paper as claimed in claim 21, wherein said paper layer which can cause intralayer delamination is mainly made of cellulose fibers.

113. (New) A multi-layer paper as claimed in claim 22, wherein said paper layer which can cause intralayer delamination is mainly made of cellulose fibers.

114. (New) A multi-layer paper as claimed in claim 23, wherein said paper layer which can cause intralayer delamination is mainly made of cellulose fibers.

115. (New) A multi-layer paper as claimed in claim 24, wherein said paper layer which can cause intralayer delamination is mainly made of cellulose fibers.

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116. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 2, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

117. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 3, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

118. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 4, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

119. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 5, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

120. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 6, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

121. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 7, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

122. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 8, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

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123. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 9, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

124. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 10, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

125. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 11, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

126. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 12, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

127. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 13, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

128. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 14, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

129. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 15, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

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130. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 16, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

131. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 17, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

132. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 18, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

133. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 19, and delaminating said multi-layer paper at said peelable paper layer interface to obtain at least two tissue sheets.

134. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 21, and delaminating said multi-layer paper at said paper layer which can cause intralayer delamination to obtain at least two tissue sheets.

135. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 22, and delaminating said multi-layer paper at said paper layer which can cause intralayer delamination to obtain at least two tissue sheets.

136. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 23, and delaminating said multi-layer paper at said paper layer which can cause intralayer delamination to obtain at least two tissue sheets.

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137. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 24, and delaminating said multi-layer paper at said paper layer which can cause intralayer delamination to obtain at least two tissue sheets.

138. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 25, and delaminating said multi-layer paper at said paper layer which can cause intralayer delamination to obtain at least two tissue sheets.

139. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 26, and delaminating said multi-layer paper at said paper layer which can cause intralayer delamination to obtain at least two tissue sheets.

140. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 27, and delaminating said multi-layer paper at said paper layer which can cause intralayer delamination to obtain at least two tissue sheets.

141. (New) A method of forming tissue sheets, comprising providing a multi-layer paper according to claim 28, and delaminating said multi-layer paper at said paper layer which can cause intralayer delamination to obtain at least two tissue sheets.

142. (New) A tissue sheet obtained by a method according to claim 30 and having a basis weight of 2-20 g/m<sup>2</sup>.

143. (New) A tissue sheet obtained by a method according to claim 31 and having a basis weight of 2-20 g/m<sup>2</sup>.

144. (New) A tissue sheet obtained by a method according to claim 32 and having a basis weight of 2-20 g/m<sup>2</sup>.

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145. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 2 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

146. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 3 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

147. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 4 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

148. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 5 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

149. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 6 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

150. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 7 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

151. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 8 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

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152. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 9 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

153. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 10 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

154. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 11 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

155. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 12 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

156. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 13 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

157. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 14 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

158. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 15 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

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159. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 16 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

160. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 17 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

161. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 18 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

162. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 19 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

163. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 20 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

164. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 21 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

165. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 22 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

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166. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 23 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

167. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 24 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

168. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 25 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

169. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 26 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

170. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 27 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

171. (New) A reinforced multi-layer paper material, comprising a multi-layer paper according to claim 28 and a reinforcing member bonded to at least one of the both sides of said multi-layer paper.

172. (New) A method of preparing a reinforced tissue sheet material, comprising providing a reinforced multi-layer paper material according to claim 37, and delaminating said multi-layer paper to obtain a reinforced tissue sheet material having said reinforcing member bonded thereto.

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173. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 2.

174. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 3.

175. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 4.

176. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 5.

177. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 6.

178. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 7.

179. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 8.

180. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 9.

181. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 10.

182. (New) A porous support material for producing a heat-sensitive stencil printing master,

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comprising a multi-layer paper according to claim 11.

183. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 12.

184. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 13.

185. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 14.

186. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 15.

187. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 16.

188. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 17.

189. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 18.

190. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 19.

191. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 20.

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192. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 21.

193. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 22.

194. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 23.

195. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 24.

196. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 25.

197. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 26.

198. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 27.

199. (New) A porous support material for producing a heat-sensitive stencil printing master, comprising a multi-layer paper according to claim 28.

200. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 2.

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201. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 3.

202. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 4.

203. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 5.

204. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 6.

205. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 7.

206. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 8.

207. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 9.

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208. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 10.

209. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 11.

210. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 12.

211. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 13.

212. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 14.

213. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 15.

214. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 16.

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215. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 17.

216. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 18.

217. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 19.

218. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 20.

219. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 21.

220. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 22.

221. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 23.

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222. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 24.

223. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 25.

224. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 26.

225. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 27.

226. (New) A material for producing a heat-sensitive stencil printing master, comprising a laminate obtained by bonding a thermoplastic polymer film to at least one side of a multi-layer paper according to claim 28.

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